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Ming-Yang Chang, Chi-Hsin Chiang, Tsung-Hong Chiu, T'sang-T'ang Hsieh, and Yung-Kuei Soong
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18 Treatment Policy After Poor Fertilization in the First IVF Cycle
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22 An Increased Number of Replaced Embryos Counteracts the Adverse Effect of Hydrosalpinges on IVF/ET Outcome
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27 Impact of Varying Stages of Endometriosis on the Outcome of In Vitro Fertilization–Embryo Transfer
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32 Heat-Induced Hyperactivation
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39 Impact of Fertilization History and Semen Parameters on ICSI Outcome
Ramazan Mercan, Sergio Oehninger, Suheil J. Muasher, James P. Toner, Jacob Mayer, Jr., and Susan E. Lanzendorf
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*Presented at the 10th World Congress on In Vitro Fertilization and Assisted Reproduction, Vancouver, BC, Canada, May 24–27, 1997.

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46 *The Role of Intravenous Immunoglobulin in the Prevention of Severe Ovarian Hyperstimulation Syndrome
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50 Effectiveness of Menuzo's B2 Medium with Buffalo Rat Liver Cells for Development of In Vitro Matured/In Vitro Fertilized Bovine Oocytes
R. L. Krisher, J. R. Gibbons, and F. C. Gwazdauskas
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55 Importance of Endometrial Quality in Women with Tubal Infertility During a Natural Menstrual Cycle for the Outcome of IVF Treatment
G. Csemiczky, H. Wramsby, E. Johannisson, and B.-M. Landgren
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62 Assisted Hatching Does Not Enhance IVF Success in Good-Prognosis Patients
Bradley S. Hurst, Kathleen E. Tucker, Caleb A. Awoniyi, and William D. Schlaff
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65 Comparison of Highly Purified FSH (Metrodin-High Purity) with Pergonal for IVF Superovulation
J. S. Bagratee, G. Lockwood, A. López Bernal, D. H. Barlow, and W. L. Ledger
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70 Zona Pellucida Thickness Variation and Occurrence of Visible Mononucleated Blastomeres in Preembryos Are Associated with a High Pregnancy Rate in IVF Treatment
Måns Palmstierna, Daniel Murkes, György Csemiczky, Ola Andersson, and Håkan Wramsby
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76 Management of Transient Ovarian Failure: Pregnancy After In Vitro Fertilization and Intracytoplasmic Sperm Injection—A Case Report
Steven Hellebaut, Paul De Sutter, and Marc Dhont
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79 *Is There Any Need for Diagnostic Laparoscopy in Couples Undergoing Intracytoplasmic Sperm Injection for Severe Male-Factor Infertility?
Ayse Aytoz, Herman Tournaye, Michel Camus, Filippo Ubaldi, Greta Verheyen, Andre Van Steirteghem, and Paul Devroey
There is no need for preliminary diagnostic laparoscopy in the female partner if a full fertility workup is normal in couples undergoing ICSI for severe male-factor inferility.

84 Spontaneous and Follicular Fluid-Induced Acrosome Reaction in Sperm Samples from In Vitro Fertilizing and Nonfertilizing Normozoospermic Patients
Onit Rufas, Alex Gilman, Benjamin Fisch, and Ruth Shalgi
Semen samples from normozoospermic patients who do not achieve fertilization in vitro present a reduced capacity to undergo a spontaneous or an induced acrosome reaction.

*Presented at the 10th World Congress on In Vitro Fertilization and Assisted Reproduction, May 24–27, 1997, Vancouver, BC, Canada.

90 Effect of Pentoxifylline on Immotile Testicular Spermatozoa
Işik Taşdemir, Murat Taşdemir, and Şafak Tavukçuoğlu
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93 Cytokines in the Human Ovary: Presence in Follicular Fluid and Correlation with Leukotriene B_4
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99 Interovarian Differences in Levels of Cotinine, a Major Metabolite of Nicotine, in Women Undergoing IVF Who Are Exposed to Cigarette Smoke
Maria Teresa Zenzes and T. Edward Reed
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B. Benzacken, B. Martin-Pont, M. Bergère, J. N. Hugues, J. P. Wolf, and J. Selva
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111 Low Multiple Pregnancy Rates and Reduced Frequency of Cancellation After Ovulation Induction with Gonadotropins, If Eventual Supernumerary Follicles Are Aspirated to Prevent Polyovulation
Christian De Geyter, Maria De Geyter, and Eberhard Nieschlag
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117 Isolation and Purification of an Early Pregnancy Factor–like Molecule from Culture Supernatants Obtained from Lymphocytes of Pregnant Women
Clara Aranha, Usha Natraj, K. S. Iyer, and Savitri Shahani
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125 *Performing Testicular or Epididymal Sperm Retrieval Prior to the Injection of hCG
Bulent Urman, Cengiz Alatas, Senai Aksoy, Alp Nuhoglu, Aycan Sertac, and Basak Balaban
Performing PESA/TESE before the administration of hCG permits in vitro culture and injection of motile sperm, confers scheduling advantages, and possibly prevents ovarian hyperstimulation syndrome if sperm cannot be retrieved.

129 *Paternal Centrosomal Dynamics in Early Human Development and Infertility
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Asangla Ao, Dagan Wells, Alan H. Handyside, Robert M. L. Winston, and Joy D. A. Delhanty
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154 Comparison of the Media for Isolation and Storage of Round Spermatid Nuclei Before Intracytoplasmic Injection
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159 *Progesterone-Activated Spermatozoa Used for In Vitro Fertilization
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161 An Ectopic Pregnancy Masked by Follicular Initiation of Gonadotropin-Releasing Hormone Agonist for Pituitary Desensitization Prior to In Vitro Fertilization
Robert Hemmings, Marinko M. Biljan, Nicola Dean, and Seang Lin Tan
The first case of ectopic pregnancy masked by the follicular-phase initiation of GnRH-a is reported, and its potentially serious consequences are discussed.

* Presented at the 10th World Congress on In Vitro Fertilization and Assisted Reproduction, May 24–27, 1997, Vancouver, B.C., Canada.

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184 *What Is a Preclinical Pregnancy Loss?
Carolyn B. Coulam, Carli Chapman, and John S. Rinehart
Preclinical pregnancy loss more likely reflects abnormalities in uterine receptivity rather than embryo quality.

* Presented at the 10th World Congress on In Vitro Fertilization and Assisted Reproduction, Vancouver, BC, Canada, May 24–27, 1997.

188 **Relationship Between Creatine Kinase Levels and Clinical Diagnosis of Infertility
R. S. Sidhu, J. Hallak, R. K. Sharma, A. J. Thomas, Jr., and A. Agarwal
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193 Effects of Endometriomas on Oocyte Quality, Embryo Quality, and Pregnancy Rates in In Vitro Fertilization Cycles: A Prospective, Case-Controlled Study
Elena H. Yanushpolsky, Craig L. Best, Katharine V. Jackson, Robert N. Clarke, Robert L. Barbieri, and Mark D. Hornstein
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198 Contamination of Embryo Transfer Catheter and Treatment Outcome in In Vitro Fertilization
Awoniyi Awonuga, Abdel Nabi, Jyoti Govindbhai, Heidi Birch, and Bert Stewart
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202 The Pathogenesis of Ovarian Hyperstimulation Syndrome: A Continuing Enigma
Alexander Simon, Ariel Revel, Arye Hurwitz, and Neri Laufer
The exact mechanism for the development of OHSS is still obscure; it may well be that the syndrome is triggered by several mediators that act in concert after induction of ovulation.

210 The Influence of Advanced Age on the Outcome of Assisted Reproduction
Jennifer E. Dew, Ronald A. Don, Graeme J. Hughes, Trevor C. Johnson, and Stephen J. Steigrad
The outcome of assisted reproduction and the ovarian response to controlled ovarian stimulation in women aged 40 years or older were significantly worse than those in younger women.

** Presented at the 53rd Annual Meeting of the American Society for Reproductive Medicine, Cincinnati, Ohio, USA, October 18–23, 1997.

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226 Epigenetic Influences on Oocyte Developmental Competence: Perifollicular Vascularity and Intrafollicular Oxygen
Jonathan Van Blerkom
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235 Recent Progress in Mammalian Cloning
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240 Genetics of Human Sperm
Renée H. Martin
Detection of aneuploidy by multicolor fluorescence in situ hybridization allows comparison of sperm aneuploidy frequencies in normal men, cancer patients, and infertile patients.

246 The Control of Mammalian Female Meiosis: Factors that Influence Chromosome Segregation
Patricia A. Hunt
Recent studies of the factors that influence mammalian meiotic chromosome segregation provide new hypotheses to explain the high incidence of chromosome abnormalities in our species.

253 Allele Dropout in Polar Bodies and Blastomeres
S. Rechitsky, C. Strom, O. Verlinsky, T. Amet, T. Ivakhnenko, V. Kukharenko, A. Kuliev, and Y. Verlinsky
Methods for detecting allele dropout in PCR analysis of polar bodies and blastomeres are described, and their efficiency in avoiding misdiagnosis in preimplantation diagnosis of single-gene disorders is demonstrated.

258 Comparison of FISH, PRINS, and Conventional and Fluorescent PCR for Single-Cell Sexing: Suitability for Preimplantation Genetic Diagnosis
Ian Findlay, Nicole Corby, Anthony Rutherford, and Philip Quirke
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266 Rapid Trisomy Diagnosis (21, 18, and 13) Using Fluorescent PCR and Short Tandem Repeats: Applications for Prenatal Diagnosis and Preimplantation Genetic Diagnosis
Ian Findlay, Tamás Tóth, Paul Matthews, Tamás Marton, Philip Quirke, and Zoltán Papp
Trisomies can be diagnosed rapidly using multiplex fluorescent PCR, allowing application in prenatal and preimplantation genetic diagnosis and diagnosis from fetal cells in the maternal circulation.

276 Chromosomal Mosaicism in Cleavage-Stage Human Embryos and the Accuracy of Single-Cell Genetic Analysis
Hung-Chih Kuo, Caroline Mackie Ogilvie, and Alan H. Handyside
Multicolor FISH was used to detect chromosomal mosaicism in human embryos and to estimate the effect on the accuracy of single-cell analysis for preimplantation genetic diagnosis.

281 Preimplantation Genetic Diagnosis of Human Embryos for Marfan's Syndrome
A. Blaszczyk, Y. X. Tang, H. C. Dietz, A. Adler, A. S. Berkeley, L. C. Krey, and J. A. Grifo
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285 Preimplantation Diagnosis of Common Aneuploidies by First- and Second-Polar Body FISH Analysis
Y. Verlinsky, J. Cieslak, V. Ivakhnenko, S. Evsikov, G. Wolf, M. White, A. Lifchez, B. Kaplan, J. Moise, J. Valle, N. Ginsberg, C. Strom, and A. Kuliev
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290 Spontaneous Abortions Are Reduced After Preconception Diagnosis of Translocations
Santiago Munné, Larry Morrison, Jingly Fung, Carmen Márquez, Ulli Weier, Muhterem Bahçe, David Sable, Larry Grundfeld, Bill Schoolcraft, Richard Scott, and Jacques Cohen
The authors' experience with preimplantation diagnosis of structural abnormalities in women carrying balanced translocations is described.

297 Incidence of Chromosomal Abnormalities from a Morphologically Normal Cohort of Embryos in Poor-Prognosis Patients
M. C. Magli, L. Gianaroli, S. Munné, and A. P. Ferraretti
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302 Successful Use of a Laser for Human Embryo Biopsy in Preimplantation Genetic Diagnosis: Report of Two Cases
M. Boada, M. Carrera, C. De la Iglesia, M. Sandalinas, P. N. Barri, and A. Veiga
Laser technology is a useful tool for embryo biopsy in PGD and represents a good alternative to the use of Tyrode's acid.

308 Preimplantation Diagnosis by FISH: The Rambam Experience
Dorit Manor, Diana Stein, and Joseph Itskovitz-Eldor
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310 FISH Preimplantation Diagnosis of Chromosome Aneuploidy in Recurrent Pregnancy Wastage
F. Vidal, C. Giménez, C. Rubio, C. Simón, A. Pellicer, J. Santaló, and J. Egozcue
Preimplantation screening for aneuploidies that are more common in early spontaneous abortions could be a reliable approach to improving the successful pregnancy rate in patients with recurrent miscarriage.

314 Simultaneous Detection of Chromosomes X, Y, 13, 18, and 21 by Fluorescence In Situ Hybridization in Blastomeres Obtained from Preimplantation Embryos
Scott E. Smith, Andrew A. Toledo, Joe B. Massey, and Paula Morton
Five-color fluorescence in situ hybridization was used to detect chromosomal abnormalities in embryos from patients of advanced maternal age.

320 Do Alterations in the Sex Ratio Occur at Fertilization? A Case Report Using Fluorescent In Situ Hybridization
Mark Bowman, Kylie de Boer, Rosemarie Cullinan, James Catt, and Robert Jansen
A case report of preimplantation genetic diagnosis in which a skewed sex ratio of embryos was noted suggests that the sex ratio might be altered at fertilization.

323 Spectral Imaging in Preconception/Preimplantation Genetic Diagnosis of Aneuploidy: Multicolor, Multichromosome Screening of Single Cells
Jingly Fung, William Hyun, Pramila Dandekar, Roger A. Pedersen, and Heinz-Ulli G. Weier
The initial application of spectral image analysis for fluorescence in situ hybridization of interphase nuclei in preimplantation genetic diagnosis is described.

331 Role of the *Ped* Gene and Apoptosis Genes in Control of Preimplantation Development
Carol M. Warner, Abigail S. McElhinny, Lizi Wu, Carsta Cieluch, Xiaoling Ke, Wei Cao, Chaoyu Tang, and Ginger E. Exley
Regulation of apoptosis likely will prove to be a major mechanism that mediates oocyte and preimplantation embryonic survival.

338 Sequence Analysis of Libraries from Individual Human Blastocysts
G. Morozov, O. Verlinsky, S. Rechitsky, V. Kukharenko, E. Goltsman, V. Ivakhnenko, V. Gindilis, C. Strom, A. Kuliev, and Y. Verlinsky
Sequencing analysis of cDNA libraries from individual human blastocytes identified six expressed sequence tags, two of which are identical housekeeping genes, hexokinase 1 and serine threonine phosphorylase.

344 The Construction of cDNA Libraries from Human Single Preimplantation Embryos and Their Use in the Study of Gene Expression During Development
James Adjaye, Rob Daniels, and Marilyn Monk
PCR-based cDNA libraries from single human preimplantation embryos provide a new and important resource for the identification and study of novel genes or gene families.

349 Evolutionary Classification of Homeodomains
Viktor Gindilis, Eugene Goltsman, and Yury Verlinsky
Multiple comparisons between available amino acid sequences of homeodomain-containing proteins from a wide spectrum of animals were made to create an evolutionary classification of the proteins.

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359 Evaluation of Pregnancy Rates After Intrauterine Insemination According to Indication, Age, and Sperm Parameters
Lucette A. van der Westerlaken, Nico Naaktgeboren, and Frans M. Helmerhorst
In a retrospective study of 566 couples undergoing first IUI attempts, a significant effect of the number of motile spermatozoa that were inseminated on the pregnancy rate was found.

365 Multivariate Analysis of Factors Predictive of Successful Live Births in In Vitro Fertilization (IVF) Suggests Strategies to Improve IVF Outcome
Demetrios Minaretzis, Doria Harris, Michael M. Alper, Joseph F. Mortola, Merle J. Berger, and Douglas Power
Embryos derived from IVF have different potentials for implantation, live births, and multiple births, and only embryos of good quality correlate significantly with live births.

372 Recovery and Maturation of Immature Oocytes in Patients at Risk for Ovarian Hyperstimulation Syndrome
Serdar Coskun, Kamal A. Jaroudi, Johannes M. G. Hollanders, Amal M. Atared, and Gayle L. Roca
Immature oocytes obtained in patients at risk of severe ovarian hyperstimulation can be matured in vitro in either a simple or a complex medium.

378 In Vitro Fertilization Treatment in Genital Tuberculosis
I. Soussis, G. Trew, I. Matalliotakis, R. Margara, and R. M. L. Winston
IVF represents a useful treatment and improves the chances of fertility in patients with genital tuberculosis.

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381 Sperm Motility Is a Major Determinant of Pregnancy Outcome Following Intrauterine Insemination
Adrian Shulman, Roni Hauser, Shlomo Lipitz, Yair Frenkel, Jehoshua Dor, David Bider, Shlomo Mashiach, Lea Yogev, and Haym Yavetz
In 160 infertile couples (544 treatment cycles) with a normal female partner, the grade of sperm motility following preparation for IUI was the only factor directly associated with conception.

386 In Vitro Fertilization Treatment for Severe Male Factor: A Comparative Study of Intracytoplasmic Sperm Injection with Testicular Sperm Extraction and with Spermatozoa from Ejaculate
Ariel Hourvitz, Adrian Shulman, Igael Madjar, Jacob Levron, David Levran, Shlomo Mashiach, and Jehoshua Dor
Fertilization, cleavage, and pregnancy rates achieved with testicular sperm injection from patients with nonobstructive azoospermia approached the levels achieved using ejaculated spermatozoa.

PHYSIOLOGY

390 CA-125 Concentrations in the Serum and Pregnancy Outcome in IVF Cycles
Alfred W. Brandenberger, Nicolas A. Bersinger, Peter R. Huber, Elisabeth Berger, Patrick Glanzmann, and Martin H. Birkhaeuser
In conventional IVF cycles, neither CA-125 serum levels on 4 days nor their increase was of prognostic value.

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395 Autocrine Effects of Transforming Growth Factor-α on the Development of Preimplantation Mouse Embryos
Yoshimasa Onohara, Tasuku Harada, Masahiro Tanikawa, Tomio Iwabe, Hiroki Yoshioka, Fuminori Taniguchi, Masahiro Mitsunari, Toshiyuki Tsudo, and Naoki Terakawa
TGF-α acts as an autocrine factor in the development of preimplantation embryos.

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403 Deviation in Sex Ratio After Selective Transfer of the Most Developed Cocultured Blastocysts
Carlos J. Quintans, Monica J. Donaldson, Liliana A. Blanco, and R. Sergio Pasqualini
Selective transfer of the most developed blastocysts obtained after coculture causes a significant deviation from the normal sex ratio in favor of males.

405 Screening Oocyte Donors for Cystic Fibrosis Using Multiplex PCR Amplification of the CFTR Gene from Buccal Cell DNA
Peter L. Chang, Steven R. Lindheim, and Mark V. Sauer
Screening oocyte donors for mutations in the cystic fibrosis gene appears to be valuable for couples undergoing oocyte donation IVF cycles, although it requires ethical, social, and economic consideration.

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408 Comparison of the Media for Isolation and Storage of Round Spermatid Nuclei Before Intracytoplasmic Injection
Kazuo Suzuki, Kaoru Yanagida, and R. Yanagimachi
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Marcin Jóźwik and Sławomir Wołczyński

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411 Ultrastructural Evaluation Following Catheterization of the Fallopian Tube with a Hysteroscopic Catheter
S. Kitamura, T. Miyazaki, S. Iwata, K. Akaboshi, Y. Osawa, and Y. Yoshimura
An ultrastructural influence following catheterization of the fallopian tube with a hysteroscopic catheter was not found by electron microscopy.

418 Assisted Hatching Reduces the Age-Related Decline in IVF Outcome in Women Younger than Age 43 Without Increasing Miscarriage or Monozygotic Twinning
David R. Meldrum, Arthur Wisot, Bill Yee, Gabriel Garzo, Lisa Yeo, and Fredesminda Hamilton
Assisted hatching increased the implantation, pregnancy, and delivery rates in women 35–42 years of age without increasing spontaneous abortion or monozygotic twinning.

422 Human Pregnancies After Transfer of Fresh (Four- to Eight-Cell) Versus Frozen–Thawed Blastocysts Resulting from Intracytoplasmic Sperm Injection
E. J. Servy, R. A. Kaufmann, Z. Liu, Y. Menezo, and L. Keskintepe
We report embryo formation following ICSI and Vero-cell co-culture, subsequent development after blastocyst cryopreservation, and that transfer of these frozen–thawed blastocysts resulted in development to term.

427 The Need to Step up the Gonadotropin Dosage in the Stimulation Phase of IVF Treatment Predicts a Poor Outcome
Doreen L. Hock, Helen Louie, Robert M. Shelden, Cande V. Ananth, and Ekkehard Kemmann
Increasing the gonadotropin dosage during the stimulation phase of an IVF cycle predicts a poor outcome, and therefore, cycle cancellation with a change in stimulation protocol may be justified.

431 Comparison of Cryopreservation Outcome Following Intracytoplasmic Sperm Injection and Conventional In Vitro Fertilization
Alex Simon, Hananel Holzer, Arie Hurwitz, Ariel Revel, Bat-Sheva Zentner, Francine Lossos, and Neri Laufer
Compared with conventional IVF, embryos originating from ICSI were not adversely affected by cryopreservation.

438 Superovulation with a High Gonadotropin Dose for In Vitro Fertilization: Is It Effective?
Hany Lashen, William Ledger, Andrés López Bernal, Barbara Evans, and David Barlow
Superovulation for IVF with a gonadotropin dose in excess of 300 IU daily is unrewarding.

444 Expectations of Recipient Couples Awaiting an Anonymous Oocyte Donor Match
Steven R. Lindheim and Mark V. Sauer
Despite the limited pool of ovum donors and the extended period to find a candidate, couples are proactive in the decision-making process.

ANIMAL EXPERIMENTATION

447 Cytoskeleton and Polyploidy After Maturation and Fertilization of Cryopreserved Germinal Vesicle–Stage Mouse Oocytes
A. Eroglu, M. Toner, L. Leykin, and T. L. Toth
Cryopreservation of mouse oocytes at the GV stage avoids irreversible spindle damage and increased digyny.

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469 Preservation of Fertility in Women Undergoing Chemotherapy: Current Approach and Future Prospects
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478 The Effects of Gonadotropin-Releasing Hormone Agonist on Androstenedione Production and Follicular Development During Controlled Ovarian Hyperstimulation
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485 Laser Scanning Confocal Imaging of Abnormal or Arrested Human Preimplantation Embryos
Rachel Levy, Mehdi Benchaib, Helene Cordonier, Catherine Souchier, and Jean-Françoise Guerin
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496 Analysis of Implantation in Assisted Reproduction Through the Use of Serial Human Chorionic Gonadotropin Measurements
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ANDROLOGY

504 Optimal Utilization of Cryopreserved Human Semen for Assisted Reproduction: Recovery and Maintenance of Sperm Motility and Viability
Tibor E. Polcz, Jill Stronk, Cheng Xiong, Ervin E. Jones, David L. Olive, and Gabor Huszar
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513 Immunohistochemical Analysis of Insulin-like Growth Factor–Binding Proteins -1, -2, and -3 in Implantation Sites of the Mouse
Mark A. Damario, Hung-Ching Liu, Carol Ann Mele, Marcelo G. Horenstein, and Zev Rosenwaks
Immunostaining of early implantation sites in the mouse reveals localization of insulin-like growth factor–binding proteins −1, −2, and −3 in maternal decidua adjacent to the implantation sites.

SHORT COMMUNICATION

521 Quintuplet Gestation Following Transfer of Five Cryopreserved Embryos: Conditions Stimulating Thawed-Embryo Implantation
Moshe R. Peress and Herbert M. Phillips
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530 Outcome of IVF in Patients with Endometriosis in Comparison with Tubal-Factor Infertility
Annica Bergendal, Sophie Naffah, Christina Nagy, Agneta Bergqvist, Peter Sjöblom, and Torbjörn Hillensjö
A lower fertilization rate in women with endometriosis compared with women with tubal factor was shown, but there were no differences in cleavage rate, implantation rate, or pregnancy outcome.

535 Diagnostic Laparoscopy in Primary and Secondary Infertility
Yedidya Hovav, Eliezer Hornstein, Miriam Almagor, and Chaim Yaffe
The diagnostic yield of laparoscopy for primary infertility in the absence of indications of mechanical factors is low.

538 The Utility of Serum Progesterone and Inhibin A for Monitoring Natural-Cycle IVF-ET
Steven R. Lindheim, Peter L. Chang, Andrea Vidali, Michel Ferin, and Mark V. Sauer
The possible application of the serum markers progesterone and inhibin A in managing natural-cycle IVF-ET is evaluated.

542 Operative Ultrasonography for Upper Genital Tract Pathology
Steven R. Lindheim, Matthew Cohen, and Mark V. Sauer
A procedure using transvaginal sonohysterography to perform operative intrauterine biopsies and resections is described.

547 Plasma Substance-P and Substance-K and Gonadal Steroids in Relation to the Gonadotropin Surge in Normal Human Reproductive Cycles
D. L. Mohyi, B. Kerdelhué, V. Lenoir, P. Kolm, H. W. Jones, Jr., and G. S. Jones
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552 Follicular Development and Hormonal Levels Following Highly Purified or Recombinant Follicle-Stimulating Hormone Administration in Ovulatory Women and WHO Group II Anovulatory Infertile Patients
Juan Balasch, Francisco Fábregues, Joana Peñarrubia, Montserrat Creus, Ricard Vidal, Roser Casamitjana, Dolors Manau, and Juan A. Vanrell
Recombinant FSH is more effective than highly purified urinary FSH for ovulation induction in WHO group II anovulation when used in the same patient in separate cycles.

ANDROLOGY

560 The Correlation of Sperm Chromatin Decondensation Following In Vitro Exposure to Heparin and Sperm Penetration Rates
Douglas T. Carrell, Benjamin R. Emery, and C. Matthew Peterson
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565 Separating X-Bearing Human Spermatozoa Through a Discontinuous Percoll Density Gradient Proved to Be Inefficient by Double-Label Fluorescent In Situ Hybridization
Shau-Ping Lin, Robert Kuo-Kuang Lee, Yuan-Jang Tsai, Yuh-Ming Hwu, and Ming-Huei Lin
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GENETICS

570 Improving the Fixation Method for Preimplantation Genetic Diagnosis by Fluorescent In Situ Hybridization
Kangpu Xu, Tianhua Huang, Tiezheng Liu, Zhongming Shi, and Zev Rosenwaks
An easy and reliable fixation method was tested and could improve the overall efficiency of the fluorescent in situ hybridization procedure for preimplantation genetic diagnosis.

SHORT COMMUNICATION

575 Pronuclear Uterine Transfer Lowers In Vitro Fertilization Success
Bradley S. Hurst, Kathleen E. Tucker, Caleb A. Awoniyi, and William D. Schlaff
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579 A Matched Study to Determine Whether Low-Dose Aspirin Without Heparin Improves Pregnancy Rates Following Frozen Embryo Transfer and/or Affects Endometrial Sonographic Parameters
Jerome H. Check, Carole Dietterich, Deborah Lurie, Ahmad Nazari, and James Chuong
Low-dose aspirin therapy without heparin did not improve either pregnancy or implantation rates following frozen embryo transfer compared with results in matched controls.

583 Low Plasma Levels of hCG After 10,000-IU hCG Injection Do Not Reduce the Number or Maturation of Oocytes Recovered in Patients Undergoing Assisted Reproduction
Saad Al-Hassan, Simon Fishel, Steven Fleming, and Simon Thornton
Blood levels of hCG do not correlate with oocyte maturity.

587 Follicular Fluid Insulin-like Growth Factor-I and Insulin-like Growth Factor–Binding Protein-1 and -3 Vary as a Function of Ovarian Reserve and Ovarian Stimulation
Laurel Stadtmauer, Andrea Vidali, Steven R. Lindheim, and Mark V. Sauer
Preovulatory follicular fluid IGF-I and IGFBP-1 levels decrease in patients with a diminished ovarian reserve and vary with gonadotropin stimulation.

594 Low Blastocyst Formation Rates in Day-2 Fertilized Oocytes
John Gullett, George M. Grunert, Cecilia T. Valdes, Randall C. Dunn, and Wan-Song A. Wun
Compared with day-1 fertilized oocytes, day-2 fertilized oocytes have a significantly lower chance of developing to a blastocyst.

599 Pretreatment with an Oral Contraceptive Is Effective in Reducing the Incidence of Functional Ovarian Cyst Formation During Pituitary Suppression by Gonadotropin-Releasing Hormone Analogues
Marinko M. Biljan, Neal G. Mahutte, Nicola Dean, Robert Hemmings, Francois Bissonnette, and Seang Lin Tan
Pretreatment with an oral contraceptive significantly reduces the formation of functional ovarian cysts during pituitary suppression with GnRH analogues.

605 Effects of Reducing Insemination Time in Human In Vitro Fertilization and Embryo Development by Using Sibling Oocytes
Serdar Coskun, Gayle L. Roca, Atif M. Elnour, Hend Al Mayman, Johannes M. G. Hollanders, and Kamal A. Jaroudi
Fertilization, cleavage, and embryo development from 1 hr of insemination are comparable, not superior, to those from 18 hr of insemination, the time commonly used in in vitro fertilization programs.

ANDROLOGY

609 Centrifugal Pulsing Increases the Recovery of Viable Spermatozoa
Peter Bielfeld, Vida Acosta, and R. S. Jeyendran
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PHYSIOLOGY

612 Evaluation of Endometrial Inflammation by Quantification of Macrophages, T Lymphocytes, and Interleukin-1 and -6 in Human Endometrium
Hervé Déchaud, Thierry Maudelonde, Jean Pierre Daurès, Jean François Rossi, and Bernard Hédon
In tubal infertility and endometriosis, the lack of expression of interleukin-6 in T lymphocytes could participate in impaired embryo implantation.

619 Isolation and Purification of an Early Pregnancy Factor–like Molecule from Culture Supernatants Obtained from Lymphocytes of Pregnant Women: II. Identification of the Molecule as a Fc-Receptor–like Molecule: A Preliminary Report
Clara Aranha, Arvind Bordekar, and Savitri Shahani
EPF-like activity synthesized and secreted by lymphocytes during pregnancy may be a Fc-receptor–like molecule.

SHORT COMMUNICATION

625 A Successful Pregnancy with In Vitro Fertilization and Embryo Transfer in an Infertile Woman with Kartagener's Syndrome: A Case Report
Tseng-Kai Lin, Robert Kuo-Kuang Lee, Jing-Tsuing Su, Wan-Yi Liu, Ming-Huei Lin, and Yuh-Ming Hwu
Infertility associated with Kartagener's syndrome is a reasonable indication for IVF-ET.